

1. (Twice Amended) A display comprising substantially a plurality of three-color pixel elements, said three-color pixel element comprising:

a blue emitter disposed at the origin of a rectangular coordinate system having four quadrants;

a pair of red emitters spaced apart from said blue emitter and symmetrically disposed about said origin in a first pair of opposing quadrants of said rectangular coordinate system;

a pair of green emitters spaced apart from said blue emitter and symmetrically disposed about said origin in a second pair of opposing quadrants of said rectangular coordinate system; and

wherein each said emitter is connected to a driver and at least two neighboring blue emitters are connected to the same driver.

2. (Amended) The display of claim 1 wherein:

said blue emitter is polygonal having corners aligned at x and y axes of said rectangular coordinate system;

said red emitters are polygonal, each having an inwardly-facing edge parallel to a side of said polygonal blue emitter; and

said green emitters are polygonal, each having an inwardly-facing edge to a side of said polygonal blue emitter.

3. (Amended) The display of claim 2 wherein:

said blue emitter is four-sided having equal internal angles, having corners aligned at x and y axes of said rectangular coordinate system;

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

said red emitters are four-sided having equal internal angles, each having a truncated inwardly-facing corner forming an edge parallel to a side of said four-sided blue emitter; and

said green emitters are four-sided having equal internal angles, each having a truncated inwardly-facing corner forming an edge parallel to a side of said four-sided blue emitter.

4. (Amended) The display [three-color pixel element] of claim 3 wherein:

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said blue emitter is square having corners aligned at x and y axes of said rectangular coordinate system;

said red emitters are square, each having a truncated inwardly-facing corner forming an edge parallel to a side of said square blue emitter; and

said green emitters are square, each having a truncated inwardly-facing corner forming an edge parallel to a side of said square blue emitter.

5. (Amended) The display of claim 1 wherein:

said blue emitter is square-shaped having sides aligned parallel to x and y axes of said rectangular coordinate system; and

said red emitters and said green emitters are L-shaped and envelop said square blue emitter.

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16 (Twice Amended) A display comprising substantially a plurality of three-color pixel elements, said three-color pixel element comprising:

a pair of red emitters, outer corners of each forming a first two opposing corners of a square;

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Washington, DC 20005
202.408.4000
Fax 202.408.4400
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a pair of green emitters, outer corners of each forming a second two opposing corners of said square;

a blue emitter disposed at a center of said square; and

wherein each said emitter is connected to a driver and at least two neighboring blue emitters are connected to the same driver.

17. (Twice Amended) The display of claim 16 wherein:

said blue emitter disposed at said center of said square and is polygonal having sides aligned such that imaginary lines perpendicularly bisecting each side pass through corners of said polygon;

said red emitters are polygonal, each having an inwardly-facing edge parallel to an edge of said polygonal blue emitter; and

said green emitters are polygonal, each having an inwardly-facing edge parallel to an edge of said polygonal blue emitter.

18. (Twice Amended) The display of claim 17 wherein:

said blue emitter disposed at said center of said square and is four-sided having equal internal angles, having sides aligned such that imaginary lines perpendicularly bisecting each side pass through said corners of said square;

said red emitters are four-sided having equal internal angles, each having a truncated inwardly-facing corner forming a line parallel to an edge of said four-sided blue emitter; and

said green emitters are four sided having equal internal angles, each having a truncated inwardly-facing corner forming a line parallel to an edge of said four-sided blue emitter.

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DUNNER LLP

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Washington, DC 20005
202.408.4000
Fax 202.408.4400
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19. (Twice Amended) The display of claim 18 wherein:

said blue emitter disposed at said center of said square and is square-shaped having sides aligned such that imaginary lines perpendicularly bisecting each side pass through said corners of said square;

said red emitters are square-shaped, each having a truncated inwardly-facing corner forming a line parallel to an edge of said four-sided blue emitter; and

said green emitters are square-shaped, each having a truncated inwardly-facing corner forming an edge parallel to a side of said four-sided blue emitter.

20. (Twice Amended) The display [three-color pixel element] of claim 16 wherein:

said blue emitter disposed at said center of said square and is square-shaped having sides parallel to sides of said square;

said red emitters and green emitters are L-shaped and envelop said square-shaped blue emitter.

31. (Twice Amended) An array for a display comprising:

a plurality of row positions;

a plurality of column positions; and

a plurality of three-color pixel elements, one of said elements disposed in each of said row positions and said column positions, each of said three-color pixel elements comprising:

a blue emitter disposed at an original of a rectangular coordinate system having four quadrants;

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GARRETT &
DUNNER LLP

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Washington, DC 20005
202.408.4000
Fax 202.408.4400
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a pair of red emitters spaced apart from said blue emitter and symmetrically disposed about said origin in a first pair of opposing quadrants of said rectangular coordinate system;

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a pair of green emitters spaced apart from said blue emitter and symmetrically disposed about said origin in a second pair of opposing quadrants of said rectangular coordinate system; and

wherein each said emitter is connected to a driver and at least two neighboring blue emitters are connected to the same driver.

34. (Twice Amended) An array for a display comprising:

a plurality of row positions;

a plurality of column positions; and

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a plurality of three-color pixel elements, one of said elements disposed in each of said row positions and said column positions, each of said three-color pixel elements comprising:

a blue emitter disposed at a center of said square;

a pair of red emitters spaced apart from said blue emitter, outer corners of each forming a first two opposing corners of a square

a pair of green emitters spaced apart from said blue emitter, outer corners of each forming a second two opposing corners of said square; and

wherein each said emitter is connected to a driver and at least two neighboring blue emitters are connected to the same driver.

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

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Washington, DC 20005
202.408.4000
Fax 202.408.4400
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Please add the following new claims 39-49.

39. (New) An image capture device comprising a plurality of three-color pixel elements; each three-color pixel element comprising:

a blue emitter disposed at an origin of a rectangular coordinate system having four quadrants;

a pair of red emitters spaced apart from said blue emitter and symmetrically disposed about said origin in a first pair of opposing quadrants of said rectangular coordinate system;

a pair of green emitters spaced apart from said blue emitter and symmetrically disposed about said origin in a second pair of opposing quadrants of said rectangular coordinate system; and

wherein each said emitter is connected to a driver and at least two neighboring blue emitters are connected to the same driver.

40. (New) An image capture device substantially comprising a plurality of three-color pixel elements, each three-color pixel element comprising:

a blue emitter;

a pair of red emitters; and

a pair of green emitters such that said red emitters and said green emitters form substantially a checkerboard pattern upon said image capture device.

41. (New) The image capture device of claim 40 wherein each three-color pixel element further comprises the pattern:

R G
B
G R.

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

42. (New) A display substantially comprising a plurality of three-color pixel elements; each three-color pixel element comprising:

a blue emitter;

a pair of red emitters;

a pair of green emitters such that said red emitters and said green emitters form substantially a checkerboard pattern upon said display; and

wherein at least two neighboring blue emitters of at least two three-color pixel elements are connected to a same driver.

43. (New) The display of claim 42 wherein each three-color pixel element further comprises the pattern:

R G
B
G R.

44. (New) The display of claim 42 wherein said display is one of a group comprising a liquid crystal display, an organic light emitting diode display, an electroluminescent display, a plasma display, and a field emission display.

45. (New) The display of claim 42 wherein said at least two neighboring blue emitters are connected to the same column driver.

46. (New) The display of claim 42 wherein said at least two neighboring blue emitters are connected to the same row driver.

47. (New) An image storage device substantially comprising a plurality of storage locations associated with three-color pixel elements, each three-color pixel element comprising: a blue emitter; a pair of red emitters; and a pair of green emitters such that

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HENDERSON
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GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

said red emitters and said green emitters form substantially a checkerboard pattern upon said image capture device.

48. (New) A display comprising substantially a plurality of three-color pixel elements, each of said three-color pixel element comprising:

a blue emitter;

a pair of red emitters;

a pair of green emitters such that said red and said green emitters substantially form a checkerboard pattern; and

wherein further each said emitter is independently addressable.

49. (New) The display of claim 48 wherein each emitter is capable of being driven with a variable analog signal.

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DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
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